



CONSTRUCTION EQUIPMENT

9990 VOLVO A25G 340064 - DIESEL ENGINE



Sample No: VCP388511
Oil Type: CHEVRON 15W40
Job No: 9990



SAMPLE INFORMATION

Sample Number	VCP388511	VCP340275	VCP307764	VCP196906
Sample Date	06 Dec 2023	04 Mar 2022	06 Apr 2021	30 Sep 2020
Machine Hours	4917	4253	3543	3082
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

DIRT PLUS
 1001 PRINCE GEORGES BLVD
 UPPER MARLBORO, MD
 US 20772
 Contact: MARCO DECESARIS
 mdecasaris@dirtyplus.biz
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.5	▲ 11.6	▲ 11.8	▲ 12.1
Base Number (BN)	mg KOH/g	■ 6.9	■ 7.9	---	---
Oxidation (PA)	%	■ 69	■ 73	■ 67	■ 60

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	■ 75	■ 82	■ 83	■ 78
Sulfation (PA)	%	■ 61	■ 66	■ 61	■ 56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ <1.0	■ <1.0	■ <1.0	■ 2.7
Silicon	ppm	■ 6	■ 6	■ 4	■ 4
Sodium	ppm	■ 0	■ 0	■ 2	■ 2
Potassium	ppm	■ 3	■ 2	■ 3	■ 3

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

WEAR METALS

Iron	ppm	■ 11	■ 10	■ 9	■ 8
Copper	ppm	■ 1	■ <1	■ 1	■ 1
Lead	ppm	■ 2	■ <1	■ 1	■ <1
Tin	ppm	■ 1	■ <1	■ 1	■ <1
Aluminum	ppm	■ 4	■ 4	■ 2	■ 0
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 111	■ 98	■ 67	■ 23
Nickel	ppm	■ <1	■ 0	■ <1	■ 0
Titanium	ppm	<1	2	8	▲ 13
Silver	ppm	■ 0	■ 0	■ <1	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	■ 1452	■ 1679	■ 1537	■ 1453
Magnesium	ppm	■ 588	■ 610	■ 664	■ 573
Zinc	ppm	■ 852	■ 964	■ 834	■ 733
Phosphorus	ppm	■ 700	■ 799	■ 710	■ 669
Barium	ppm	■ 11	■ 0	■ 0	■ 0
Boron	ppm	■ 241	■ 257	■ 167	■ 64

Depot: DIRUPP
Unique No: 10782849
Signed: Don Baldrige
Report Date: 15 Dec 2023



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GRAPHS

